FIRE ALARM DEMOLITION NOTES: 1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND REMOVAL OF FIRE ALARM SYSTEM WORK AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN ISSUES WHEN CONCEALED WORK HAS BEEN EXPOSED. NO ADDITIONAL CLAIMS FOR WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, UNLESS, IN CERTAIN CASES, CONSIDERED JUSTIFIABLE BY THE ENGINEER. NOTE THAT THE FACILITY WILL BE FULLY OPERATIONAL DURING THE COURSE OF THIS 2.1. THE CONTRACTOR IS TO COORDINATE ALL OF THE DEMOLITION WORK WITH THE FACILITY PERSONNEL TO MINIMIZE DISTURBING THE OPERATING EQUIPMENT, WIRING AND SYSTEMS. 2.2. THE CONTRACTOR SHALL PERFORM REMOVAL AND DEMOLITION WORK WITH MINIMAL INTERFERENCE WITH EXISTING SYSTEMS. DEMOLITION AND REMOVAL OF WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER. THE CONTRACTOR SHALL RESTORE, PATCH, PAINT, ETC., ANY INTERIOR/EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION. REFER TO FIRE ALARM PLANS FOR NEW EQUIPMENT AND DEVICE LAYOUTS AND EXTENT OF EQUIPMENT BEING REPLACED, RELOCATED, OR REMOVED, COORDINATE WITH ALL TRADES AS TO EXTENT OF EQUIPMENT BEING REMOVED OR RELOCATED CLOSELY COORDINATE THE EXTENT OF DEMOLITION SCOPE OF WORK WITH ARCHITECT ENGINEER AND/OR MECHANICAL PLANS. PATCH AND PAINT (TO MATCH SURROUNDING CONDITIONS) ALL OPENINGS CREATED BY THIS DEMOLITION. EXISTING CONDITIONS, EQUIPMENT, MATERIALS & SIZES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS AND BRING ANY DISCREPANCIES TO THE ENGINEER'S ATTENTION IN WRITING PRIOR TO BID SUBMISSION. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM SYSTEM DEMOLITION WORK FOR THIS PROJECT WHETHER OR NOT SPECIFICALLY INDICATED ON THIS OR OTHER DEMOLITION PLANS. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE DISCONNECTION, REMOVAL AND DISPOSAL OF: INITIATION AND NOTIFICATION DEVICES, JUNCTION BOXES, WIRE, CABLE, CONDUIT, MOUNTING HARDWARE STRAPS OR CABLES, ETC. PER THE SCOPE OF WORK FOR THIS PROJECT. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL FIRE ALARM DEVICES, INCLUDING ASSOCIATED WIRING, CONDUITS, COVERS, BOXES, ETC., WHERE INDICATED ON THE PLANS. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL IN THE CEILING SPACE; JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO THE SOURCE PANELBOARD. ALL WORK MUST BE SCHEDULED AND PERFORMED AS NOT TO INTERRUPT NORMAL OPERATIONS. REMOVAL OF ITEMS THAT WILL CAUSE ANY TYPE OF TEMPORARY SHUTDOWN SHALL BE PERFORMED DURING OFF-PEAK HOURS. ALL SUCH OUTAGES SHALL BE SCHEDULED AND COORDINATED WITH OWNER FIELD REPRESENTATIVE TO ENSURE ESSENTIAL SERVICES OR AREAS CAN BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL CLOSELY FOLLOW THE DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE. THE SHUTDOWN OF EXISTING BUILDING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE OWNER. MAKE APPROPRIATE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN. 11. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING FIRE ALARM SYSTEM WORK WHICH INTERFERES WITH THE NEW SYSTEM AND ARCHITECTURAL LAYOUTS IN FULL COORDINATION WITH THE ENGINEER'S PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE. 12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY CONNECTIONS / DISCONNECTIONS AS NEEDED TO ENSURE ADEQUATE SAFETY AND PROTECTION OF ALL PERSONNEL AND EQUIPMENT. 13. ALL FIRE ALARM PANELS AND NOTIFICATION APPLIANCE POWER EXTENDERS SHALL BE MAINTAINED AS WORKING PANELS THROUGHOUT CONSTRUCTION AND WILL CONTINUE TO MAINTAIN CIRCUITS FOR EXISTING DEVICES TO REMAIN. PROVIDE AS NECESSARY TEMPORARY FEEDS TO ANY DEVICES THAT MAY BE REQUIRED FOR UNINTERRUPTED USE. PROVIDE TEMPORARY CONNECTIONS FOR RELOCATED EQUIPMENT DURING CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ANY DEVICES LOCATED OUTSIDE OF DEMOLITION WORK AREA ARE NOT AFFECTED BY REMOVAL OF WIRING AND/OR CIRCUITING. WIRING/CONDUIT SHALL BE LEFT IN A SAFE CONDITION, LABELED FOR ITS USE, AND EXTENDED AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY, INCLUDING ALL APPLICABLE CONTROLS. PORTIONS OF INITIATION AND NOTIFICATION LOOP RUNS THAT SHALL BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK. BUT WHICH ARE REQUIRED TO

CONDUIT SIZES, ETC.

THAT IS REMAINING TO NEW LOCATION.

DURING RENOVATION PHASE.

MATCHING BLANK COVERS.

PRIOR TO INITIAL ROUGH-IN.

VA FORM 08-623

ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING WIRING AND LEAVE IN A

SAFE CONDITION (TAG AND LABEL ITS USE) FOR FUTURE RECONNECTION

20. ALL UNUSED OUTLET BOXES THAT ARE TO REMAIN SHALL BE PROVIDED WITH

REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

NEAREST JUNCTION OR PULLBOX, AND THE OPENINGS BLANKED.

PATCHED, AND PAINTED TO MATCH SURROUNDINGS.

ALL RACEWAYS WHICH ARE EXPOSED AS A RESULT OF NEW WORK SHALL BE

23. ANY CONDUITS PENETRATING MASONRY SURFACES SHALL BE CUT INTO SURFACE,

24. DISCONNECT, RELOCATE OR REMOVE ELECTRICAL INSTALLATIONS AND EQUIPMENT AS

INDICATED BY PLANS AND AS REQUIRED BY CHANGES IN CONSTRUCTION. WHERE EXISTING ELECTRICAL INSTALLATIONS INTERFERE WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE NEW INSTALLATIONS SHALL BE RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS. DETERMINE AND COORDINATE ALL EQUIPMENT LOCATIONS

22. EXISTING RACEWAYS THAT ARE NOT BEING REUSED SHALL BE REMOVED BACK TO THE

REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW LOOP EXTENSIONS SHALL MATCH EXISTING WIRING SPECIFICATIONS IN ALL ASPECTS INCLUDING BUT NOT LIMITED TO CABLE TYPE, 16. ALL EXISTING LOW VOLTAGE WIRING FOR FIRE ALARM SYSTEMS THAT ARE NOT REUSED SHALL BE REMOVED IN ITS ENTIRETY BY THE RESPONSIBLE CONTRACTOR. 17. CONTRACTOR IS TO EXERCISE EXTREME CAUTION WHEN CUTTING SLAB TO AVOID DAMAGE TO ANY EXISTING CONDUITS, PIPING, ETC. THAT MAY BE CONCEALED IN OR BENEATH THE SLAB, ANY FLOOR SLAB AFFECTED BY THE REMOVAL OF DEVICES FED VIA UNDERGROUND CONDUIT OR WIRING, SHALL BE FIRESTOPPED AND PATCHED BY THE GENERAL CONTRACTOR AND TO MATCH SURROUNDING FLOOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING, RELOCATING, AND/OR RECONNECTING ALL EXISTING EQUIPMENT THAT IS TO REMAIN, EVEN IF THIS EQUIPMENT IS NOT SHOWN ON PLANS OR SCHEDULES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING EXISTING SYSTEM LOOPS FROM EXISTING EQUIPMENT 19. IN THE EVENT THAT FIRE ALARM PLANS CALL FOR EXISTING WIRING TO BE REUSED, THE ELECTRICAL CONTRACTOR SHALL SURVEY EXISTING WIRING, BOXES, ETC. TO DETERMINE IF THE EXISTING WIRING MAY BE REUSED FOR NEW DEVICES (IF WIRING REMAINS IN IT'S ORIGINAL CONDUIT). ELECTRICAL CONTRACTOR SHALL DETERMINE THAT THE ENTIRE RUN OF EXISTING WIRING, FROM SOURCE TO DEVICE FOR WIRING TO BE REUSED, IS FEASIBLE FOR REUSE AND MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES HAVING JURISDICTION. 19.1. IN INSTANCES WHERE EXISTING WIRING IS TO BE EXTENDED OR REUSED,

GENERAL FIRE ALARM NOTES: FIRE ALARM DEMOLITION NOTES (CONT.): FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE TYPE SYSTEM, AND DEVICES SHALL 25. DISCONNECT AND RELOCATE/RECONNECT ANY ELECTRICAL LINES, DEVICES (INCLUDING BE INDIVIDUALLY ADDRESSED. COORDINATE ADDRESSES WITH VA ELECTRIC SHOP FIRE ALARM DEVICES), ETC. AND REPAIR PULL BOXES THAT MAY BE DISTURBED DURING THIS RENOVATION. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED ** SYSTEM DOWNLOAD AND ANY SHUTDOWN IN THE FIRE ALARM SYSTEM MUST BE DUE TO ANY CHANGES REQUIRED UNDER THE CONTRACT, SHALL BE RESTORED TO SCHEDULED AT LEAST 3 WEEKS IN ADVANCE WITH COR** ITS ORIGINAL OPERATING CONDITION AT NO COST TO OWNER. IF ANY EQUIPMENT TO REMAIN IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPLACED WITH NEW (WITH CONTRACTOR MUST RETAIN THE SERVICES OF THE PRIMARY VA VAR FOR NO COST APPLIED TO OWNER). MODIFICATIONS TO THE FIRE ALARM SYSTEM. PLANS REFLECT THE DESIGN INTENT ONLY AND ARE TO BE USED FOR DEVICE PLACEMENT ONLY. ALL MODIFICATIONS 26. ALL MATERIALS AND EQUIPMENT TO BE DEMOLISHED ARE TO BE DISPOSED OF BY REQUIRED BY THE OWNER AND THE LOCAL FIRE OFFICIALS SHALL BE INCORPORATED THE CONTRACTOR, UNLESS DIRECTED OTHERWISE BY THE OWNER. CONTRACTOR IS INTO THE INSTALLED SYSTEM. RESPONSIBLE FOR DISPOSAL OF ALL MATERIALS IN ACCORDANCE WITH LOCAL AND FEDERAL LAWS. ALL MATERIALS THAT ARE CONSIDERED TO BE RECYCLABLE ARE TO ALL COMPONENTS SHALL BEAR THE U.L. LABEL FOR FIRE SERVICE USE AND SHALL BE RECYCLED ACCORDINGLY BY THE CONTRACTOR. BE COMPATIBLE FOR USE WITH ALL INTERCONNECTING EQUIPMENT. 5. PROVIDE PERMANENT, "TYPED" LABEL ON INSIDE OF ALL FIRE ALL CABINETS. INDICATE SPECIFIC DEDICATED POWER CIRCUIT FEEDING PANEL. NOT USED 7. ALL FIRE ALARM SYSTEM JUNCTION BOXES AND CONDUITS SHALL BE PAINTED RED. COVER PLATES SHALL BE PAINTED RED AND MARKED 'FA'. ALL FIRE ALARM JUNCTION BOXES AND CONDUITS ARE TO BE LABELED WITH CIRCUIT TYPE AND CIRCUIT NUMBER AT INTERVALS NOT EXCEED 10'. 8. INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURATELY MARKED DRAWINGS FOR 'AS BUILT' PURPOSES, WITH INSTALLED WIRING RUNS AND EQUIPMENT 9. FIRE ALARM CONTRACTOR SHALL UPDATE DRAWINGS AND GRAPHICS IN THE MAIN FIRE ALARM PANEL SHOWING THE LOCATIONS OF ALL FIRE ALARM DEVICES. 10. REFER TO DRAWING FA-601 FOR FIRE ALARM SYSTEM MATRIX SEQUENCE OF OPERATIONS, FIRE ALARM RISER DIAGRAM, AND ADDITIONAL INFORMATION. 11. THE COMPLETE SYSTEM SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE PROJECT SPECIFICATIONS, IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA72, A.N.S.I., A.D.A. REQUIREMENTS, VA FIRE PROTECTION DESIGN MANUAL AND ALL STATE AND LOCAL BUILDING CODES. 12. FIRE ALARM SYSTEM VENDOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INSPECTIONS RELATING TO THE SYSTEM INSTALLATION. THIS SHALL INCLUDE PAYING FOR ALL FEES AND SCHEDULING OF INSPECTION. 13. SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BEGINNING ANY WORK. SHOP DRAWINGS SHALL INDICATE WIRE COUNTS, CONDUCTOR TYPES, RACEWAY LOCATIONS AND SIZES, EQUIPMENT CATALOG NUMBERS, BATTERY CALCULATIONS, AND DESCRIPTIONS CLEARLY HIGHLIGHTED TO SPECIFICALLY INDICATE WHICH PRODUCTS ARE PROPOSED FOR USE. AFTER SATISFACTORY REVIEW BY THE FIRE MARSHAL, WORK SHALL COMMENCE. 14. FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE ALARM SHOP DRAWINGS (INCLUDING ALL TECHNICAL DATA SHEETS) THAT COMPLY WITH FIRE OFFICIAL'S OFFICE SYSTEM INSTALLATION REQUIREMENTS, TO THE FIRE MARSHAL WITHIN 30 DAYS OF PERMIT ISSUE, FOR FINAL PERMIT APPROVAL PRIOR TO START OF WORK. 15. AS-BUILT DRAWINGS SHOWING POINT BY POINT CONNECTIONS OF ALL DEVICES AND FINAL EQUIPMENT LOCATIONS SHALL BE PROVIDED TO OWNER UPON FINAL FIRE MARSHAL INSPECTION AND APPROVAL. 16. FINAL CONNECTIONS BETWEEN EQUIPMENT AND WIRING SYSTEM SHALL BE MADE UNDER DIRECT SUPERVISION OF A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER, WHO SHALL TEST THE SYSTEM COMPLETELY AND PROVIDE A CERTIFICATE IN WRITING AS TO THE PROPER INSTALLATION AND OPERATION OF THE FIRE ALARM SYSTEM PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM BY THE 17. FIRE ALARM CONTRACTOR SHALL COORDINATE ALL SIGNAL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH FIXTURE PLAN, FIRE MARSHAL AND OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. 18. FIRE ALARM CONTRACTOR SHALL UTILIZE FIRE RATED CABLE FOR FIRE ALARM SYSTEM. INSTALL CABLE PER NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES HAVING JURISDICTION. CABLE SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURE. ROUTE CABLES ABOVE BOTTOM CORD OF JOISTS, CONCEALED TO MAXIMUM EXTENT POSSIBLE. 19. THE MINIMUM SIZE CONDUIT SHALL BE PROVIDED AS REQUIRED BY TABLE 4, CHAPTER 9, OF THE NATIONAL ELECTRIC CODE, USING ACTUAL CROSS SECTION AREA OF THE WIRING INSTALLED. 20. THE INSTALLER IS RESPONSIBLE FOR VERIFYING ALL WIRING IS CLEAR OF ANY GROUNDS, OPENS, OR SHORTS, AND THAT THE CIRCUITS ARE OF THE CORRECT RESISTANCE AND CAPACITANCE VALUES PRIOR TO TERMINATION OF WIRING TO FIRE ALARM EQUIPMENT. IN ADDITION, ALL WIRING MUST BE PROPERLY SUPPORTED. 21. TEE BARS SHALL BE USED TO SUPPORT JUNCTION BOXES IN SUSPENDED CEILING PANELS. LOCATE CABLE SO THEY DO NOT PREVENT REMOVAL OF PANELS. 22. ALL HORIZONTAL FIRE ALARM WIRING MUST BE INSTALLED IN RED CONDUIT. NO 23. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH OPENINGS. OPENINGS SHALL ALSO BE SEALED TO PREVENT WATER SEEPAGE WHERE APPLICABLE. ALL OPENINGS SHALL BE COORDINATED WITH OTHER CRAFTS TO PREVENT INTERFERENCE AND OBSTRUCTION. PENETRATIONS THROUGH FIRE WALLS MUST BE MADE BY AN APPROVED THROUGH PENETRATION FIRESTOP SYSTEM. 24. CONDUIT RUNS SHOWN DIAGRAMMATIC. INSTALLER SHALL FIELD VERIFY ALL LENGTHS, DIMENSIONS, AND ARRANGEMENTS PRIOR TO COMMENCEMENT OF WORK. INSTALLER SHALL IDENTIFY INTERFERENCES BETWEEN WORK IN OTHER AREAS. 25. WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR SIZE, TYPE, AND QUANTITY. CONDUCTORS SHALL BE PERMANENTLY MARKED FOR FUTURE IDENTIFICATION. PERMANENT WIRE MARKERS SHALL BE USED TO IDENTIFY THE TERMINATIONS OF ALL CONDUCTORS WITH THE FIRE ALARM CONTROL PANEL, PULL BOXES, AND OTHER PANELS (REFERENCE NEC 760.10). 26. THERE SHALL BE NO SPLICES IN THE FIRE ALARM SYSTEM. 27. REFER TO PLANS FOR DEVICE QUANTITIES AND LOCATIONS. 28. LOCATE DEVICES TO AVOID ANY CONFLICT WITH HVAC DUCTS, DIFFUSERS AND LIGHTING FIXTURES. 29. CONTRACTOR SHALL VERIFY LOCATION OF ALL NEW CEILING MOUNTED FIRE ALARM DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION. LOCATION OF DETECTORS SHALL COMPLY WITH THE FOLLOWING: SHALL NOT BE CLOSER THAN 24 INCHES FROM ANY VERTICAL OBSTRUCTION (BEAM, COLUMN, A/C DUCT, ETC.) SHALL NOT BE CLOSER THAN 3 FT. FROM, NOR IN THE DIRECT PATH OF A SUPPLY REGISTER. 30. WHEN CEILING MOUNTED, SMOKE AND/OR HEAT DETECTORS SHALL BE MOUNTED NO CLOSER THAN 4" TO A SIDE WALL; OR WHEN WALL MOUNTED, NO HIGHER THAN 4" OR LOWER THAN 12" FROM THE TOP OF THE DETECTOR TO THE CEILING. 31. THE DUST COVERS FURNISHED WITH THE SMOKE DETECTORS MUST BE INSTALLED WITH EACH DEVICE UNTIL FINAL CHECKOUT (REFERENCE NFPA 72). 32. UPON COMPLETION OF THE RENOVATION, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING UPDATED FACILITY MAPS AND ZONE SCHEDULES FOR BOTH BUILDINGS. MAPS SHOULD INDICATE LOCATION OF ALL FIRE ALARM DEVICES, DETAILED ZONE NUMBERS OR ADDRESSES AS REQUIRED. REFER TO FIRE ALARM SPECIFICATIONS FOR

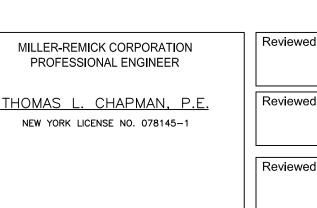
ADDITIONAL INFORMATION.

FIRE ALARM ABBREVIATIONS FIRE ALARM SYMBOLS SINGLE-PHASE RELOCATED EXISTING FIRE ALARM CONTROL PANEL (MOUNT 6'-0" ABOVE FINISHED FIRE ALARM ANNUNCIATOR PANEL SINGLE POLE FAAP REFLECTED CEILING PLAN FLOOR TO TOP); PROVIDED WITH BACK-UP BATTERIES RATED TWO-CONDUCTOR FABL FIRE ALARM BELL RECESSED FOR 24 HOUR MINIMUM SERVICE / 5 MINUTES IN ALARM MODE THREE-CONDUCTOR FABX FIRE ALARM BOX RECPT RECEPTACLE THREE-PHASE FACP FIRE ALARM CONTROL PANEL RGS RIGID GALVANIZED STEEL FOUR-CONDUCTOR FOOTCANDLE ROOM FIRE ALARM TERMINAL CABINET (MOUNT 5'-0" ROOT MEAN SQUARE FOUR-WIRE RMS FILM ILLUMINATOR ABOVE FINISHED FLOOR TO TOP) REQD REQUIRED FIXTURF A/C UNIT AIR CONDITIONING UNIT FULL LOAD AMPS FIRE ALARM REMOTE ANNUNCIATOR (MOUNT SCC FLEXIBLE METALLIC CONDUIT SHORT CIRCUIT CAPACITY ARCHITECT/ENGINEER FLEX 5'-0" ABOVE FINISHED FLOOR TO TOP) SFRVICE ENTRANCE SECTION ALARM ANNUNCIATOR PANEL FLOODLIGHT ALTERNATING CURRENT OR ARMORED FLUOR FLUORESCENT SMOKE DETECTOR NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL (MOUNT FLUOR FIX CABLE FLUORESCENT FIXTURE SQUARE FOOT (FEET) 6'-0" ABOVE FINISHED FLOOR TO TOP); PROVIDED WITH ACCESSIBLE FOUTT TELEPHONE FLOOR OUTLET BACK-UP BATTERIES RATED FOR 24 HOUR MINIMUM SERVICE / ADDITIONAL FIRE PROTECTION INTERNATIONAL SYSTEM OF UNITS 5 MINUTES IN ALARM MODE ADJACENT, ADJOINING FEET OR FOOT SPECIFICATION SPST AUTOMATIC DOOR OPENER FU SW SINGLE POLE, SINGLE THROW FUSED SWITCH FULL VOLTAGE NON-REVERSING AMPERE FRAME OR AMP FUSE SURF FVNR SURFACE MANUAL PULLSTATION (MOUNT BETWEEN 42" AND 48" ABOVE FINISHED COUNTER, AUTOMATIC FVR FULL VOLTAGE REVERSING SWITCH ABOVE FINISHED FLOOR TO TOP OF DEVICE) FREQUENCY CONTROL, OR AVAILABLE SWBD **SWITCHBOARD** FAULT CURRENT G OR GND GROUND OR GENERATOR SWGR SWITCHGEAR DETECTOR, HEAT; LETTER INDICATES AS FOLLOWS: ABOVE FINISHED FLOOR GENERATOR F = FIXED TEMP. RISE (135°)GEN R/T = COMBINATIONABOVE FINISHED GRADE GROUND FAULT CIRCUIT INTERRUPTER TIME CLOCK R/C = RATE COMPENSATION R = RATE OFAMPERE HOUR TELEPHONE GTB GROUND TERMINAL BOX AUTHORITY HAVING JURISDICTION TWISTED PAIR DETECTOR; LETTER INDICATES AS FOLLOWS: AMPERE INTERRUPTING CAPACITY HIGH INTENSITY DISCHARGE TWISTED PAIR SHIELDED BLANK = SMOKE DETECTOR ALTERNATE HAND-OFF-AUTOMATIC TELEPHONE TERMINAL BOARD H = HEAT SMOKEAMB OR **AMRIFNT** HORSEPOWER TELEVISION I = IONIZATION SMOKE AMPERE HEIGHT TYPICAL P = PHOTOELECTRIC SMOKEARCHITECT HERTZ IH = IONIZATION AND HEAT SMOKE AMPS SHORT CIRCUIT UNDERFLOOR DUCT IP = IONIZATION AND PHOTOELECTRIC SMOKE ILLUMINATION ENGINEERING SOCIETY OF UGND AMPERE TRIP IESNA UNDERGROUND PH = PHOTOELECTRIC AND HEAT SMOKE AUTOMATIC TRANSFER SWITCH UNDERWRITERS LABORATORY ATS NORTH AMERICA IPH = IONIZATION, PHOTOELECTRIC, AND HEAT AUTOMATIC INTERMEDIATE METAL CONDUIT UON UNLESS OTHERWISE NOTED AUDIO VISUAL INCAND INCANDESCENT UPS UNINTERRUPTIBLE POWER SUPPLY DETECTOR, SMOKE, FOR DUCT INFRARF UTIL UTILITY (FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR; INSTANTANEOUS WATER HEATER WIRED BY THE ELECTRICAL CONTRACTOR) BARE COPPER J-BOX JUNCTION BOX VOLT AMPERE BOARD DUCT SMOKE DETECTOR REMOTE TEST/TEST SWITCH BELOW FINISH FLOOR VOLT AMPERE REACTIVE VAR BASIC INSULATION LEVEL KILOVOLT VFD VARIABLE FREQUENCY DRIVE SPRINKLER ALARM VALVE TAMPER SWITCH BLDG KILOVOLT AMPERE VOLT BUILDING kVA VOLTAGE BOILER PLANT INSTRUMENTATION PANEL (FURNISHED AND INSTALLED BY OTHERS; WIRED BY THE KILOVOLT AMPERE PER HOUR kVAH BRKR KILOVOLT AMPERE REACTIVE BRFAKFR kVAR ELECTRICAL CONTRACTOR) WATER HEATER BY PASS KILOWATT **WEATHERPROOF** KILOWATT HOUR SPRINKLER ALARM VALVE WATER FLOW SWITCH CONDUIT kWHM KILOWATT HOUR METER (FURNISHED AND INSTALLED BY OTHERS; WIRED BY THE **CABINET TRANSFER** ELECTRICAL CONTRACTOR) CALC CALCULATE LIGHT EMITTING DIODE TRANSFORMER XFMR CAPACITY LINEAR FEET (FOOT) SPRINKLER ALARM PRESSURE SWITCH CATALOG LUMEN (FURNISHED AND INSTALLED BY OTHERS; WIRED BY THE COMMUNITY ANTENNA TELEVISION LIGHT POLE ELECTRICAL CONTRACTOR) CCR LOW PRESSURE SODIUM CONTROL CONTACTOR LPS CCTV CLOSED CIRCUIT TELEVISION LOCKED ROTOR AMPS I RA AUTO SYNC STROBE UNIT WITH SELECTABLE CANDELA LTCP LOCAL TEMPERATURE CONTROL PANEL CANDELA ADA COMPLIANT (MOUNT 80" ABOVE FINISHED FLOOR OR 6" CONSTRUCTION DOCUMENTS BELOW FINISHED CEILING TO TOP OF DEVICE, WALL MOUNTED U.O.N.) CONTRACTOR FURNISHED LIGHTING LTG CONTRACTOR FURNISHED/CONTRACTOR LIGHTING PANEL CF/CI LTG PNL LTNG LIGHTNING INSTALLED FIRE SPEAKER UNIT (WALL MOUNTED U.O.N.) CF/OI CONTRACTOR FURNISHED/OWNER LOW VOLTAGE **INSTALLED** FIRE SPEAKER STROBE (AUTO SYNC) UNIT WITH SELECTABLE CONTRACTOR FURNISHED EQUIPMENT MATV MASTER ANTENNA TELEVISION SYSTEM CANDELA; ADA COMPLIANT (MOUNT 80" ABOVE FINISHED FLOOR CHILLED WATER MAXIMUM OR 6" BELOW FINISHED CEILING TO TOP OF DEVICE, WALL MOUNTED U.O.N.) CHILLED WATER PUMP METAL-CLAD CHWP MINIMUM CIRCUIT AMPS CONTROL MODULE CKT BRKR CIRCUIT BREAKER MAIN CIRCUIT BREAKER CURRENT LIMITING FUSE MOTOR CONTROL CENTER MONITORING MODULE CEILING MAIN DISTRIBUTION PANEL CONCRETE MASONRY UNIT MECH MECHANICAL COAX COAX CABLE MOTOR GENERATOR MAGNETIC DOOR HOLDER COMM COMMUNICATION MANHOLF COMPT COMPARTMENT MINIMUM MIN ELECTROMAGNETIC DOOR RELEASE OR DOOR RELEASE RELAY MAXIMUM OVERCURRENT PROTECTION CONCRETE CONT CONTINUE MLO MAIN LUGS ONLY CONTR CONTRACTOR MOUNT POINT OF CONNECTION TO EXISTING ELECTRIC SYSTEM COORD COORDINATE MTD MOUNTED CONTROL POWER TRANSFORMER MOUNTING MANUAL TRANSFER SWITCH COLOR RENDERING INDEX MTS END OF DEMOLITION POINT. CURRENT TRANSFORMER MEDIUM VOLTAGE CABLE TELEVISION MEGAVOLT-AMPERE COPPER MEGAWATT MICROWAVE ------ INDICATES EQUIPMENT TO BE DEMOLISHED CUBIC FEET CU FT CURRENT NOT APPLICABLE NATIONAL ELECTRICAL CODE DECIBEL OR DIRECT BURIAL NATIONAL ELECTRICAL MANUFACTURERS KEY NOTE SYMBOL DIRECT CURRENT ASSOCIATION DIMMER CONTROL PANEL NEUT OR N NEUTRAL DEGREES CELSIUS NATIONAL FIRE PROTECTION ASSOCIATION MULTIPLE KEY NOTES APPLYING TO THE DEGREES FAHRENHEIT NOT IN CONTRACT DEG F SAME ITEM DEMO DEMOLITION NIGHT LIGHT DIAG DIAGRAM NORMALLY OPEN DISC DISCONNECT NO SCALE DETAIL IDENTIFIER DISTRIBUTION DISTR NOT TO SCALE NTS DETAIL : DISTR PNL DISTRIBUTION PANEL DRAWING # (WHERE DETAIL IS FOUND) DMR SW DIMMER SWITCH ON CENTER OUTSIDE DIAMETER DOWN DPDT DOUBLE POLE, DOUBLE THROW OVERLOAD SPRINKLER ZONE/SMOKE WALL DPST DOUBLE POLE, SINGLE THROW DRSW DOOR SWITCH AREA OF WORK DISCONNECT SWITCH PUBLIC ADDRESS PA DRAWING PANELBOARD, PULL BOX, OR PUSHBUTTON EXISTING TO REMAIN PREFABRICATED BEDSIDE PATIENT UNIT EXISTING TO BE RELOCATED PCB POLYCHLORINATED BIPHENYL EMPTY CONDUIT PHOTOELECTRIC CELL EQUIPMENT GROUND PED PEDESTAL FI FVATION PEND PENDANT ELECTRIC OR ELECTRICAL POWER FACTOR ELEVATOR PHASE **EMCP** EMERGENCY MONITORING CONTROL POWER OPERATED DAMPER **EMER EMERGENCY** POTENTIAL TRANSFORMER ELECTROMAGNETIC INTERFERENCE PTRV POWER TYPE ROOF VENTILATION ELECTRICAL METALLIC TUBING PVC POLYVINYL CHLORIDE (PLASTIC) ENCLOSURE PWR EMERGENCY POWER OFF EXPLOSION PROOF ESMT EASEMENT



Date





ACC

CAB

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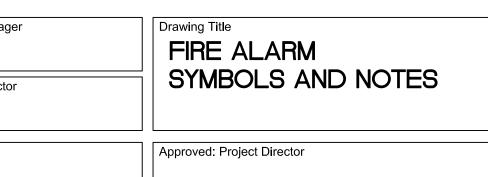
EWC

EXIST

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

EXISTING



AUDIOLOGY LAB RENOVATION

05-19-2014 Project No. 528A7-13-750

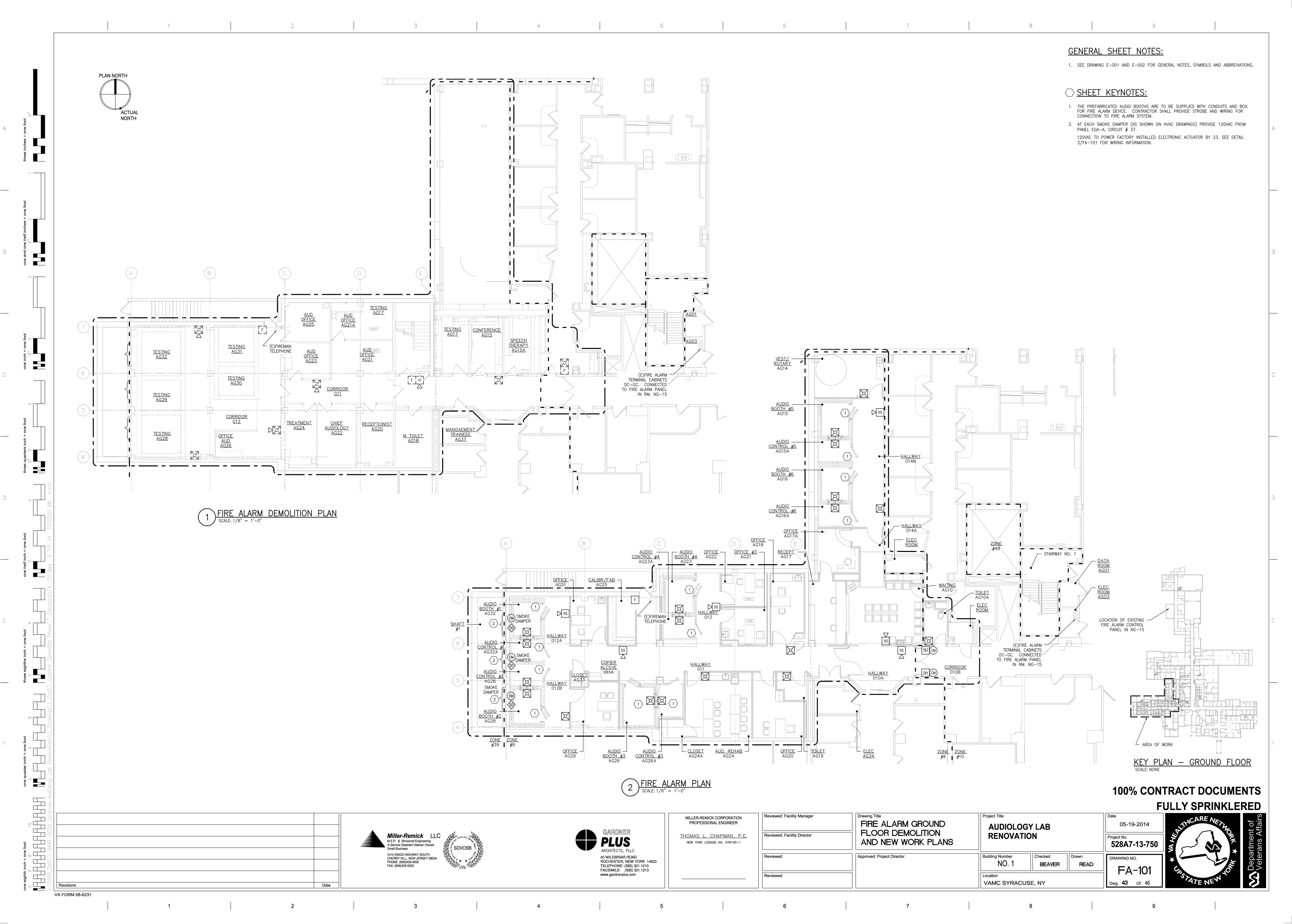


100% CONTRACT DOCUMENTS



Reviewed: Facility Manager DRAWING NO. READ **BEAVER** FA-001

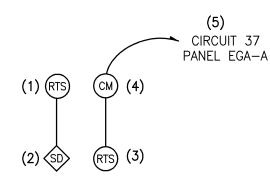
VAMC SYRACUSE, NY



FIRE ALARM SYSTEM	IINP	UT OL	JTPUT SE	Q	UENC	EO	FΟ	PEF	RA	TION	S M	4TR	IX
	OUTPUT DEVICE	SOUND GENERAL BUILDING ALARM FOR OTHER AND HIGH RISE (NON- HEALTH CARE). SEE SEC. 7.2.1	NOTIFY NECESSARY STAFF FOR RESPONSE FOR HEALTH CARE AND HIGH RISE BUILDING ONLY (ALARM SIGNAL MAY BE DIFFERENT ON DIFFERENT FLOORS).	NOTIFY FIRE DEPARTMENT.	INITIAL SUPERVISORY SIGNAL TO A 24-HOUR MANNED POINT FOR IMMEDIATE RESPONSE.	CLOSE ASSOCIATE SMOKE BARRIER DOORS ON THE FLOOR.	CLOSE DAMPERS ON FAN PROXIMATED TO DETECTOR.	SHUT DOWN AIR HANDLER SERVED BY THE DETECTOR.	RECALL ELEVATOR	INITIATE ELEVATOR SHUT DOWN AND DISCONNECT ELEVATOR POWER.	OPEN **LOCKED EGRESS DOORS ON FLOOR OF FIRE ORIGIN.	DISCONNECT FUEL SOURCE FROM COOKING EQUIPMENT.	INITIATE CLOSURE OF SMOKEDAMPERS
INPUT DEVICE		1	2	3	4	5	6	7	8	9	10	11	12
DUCT SMOKE DETECTOR*					Х		Х	X (a)					T
DOOR RELEASE SMOKE DETECTOR*	***************************************	Х	Х	Х		Χ	Х				X		
ELEVATOR SMOKE DETECTOR*	***************************************	Х	X	Х					Х				
MANUAL PULL STATION		Х	X	Х		X					X		T

*- WHILE NFPA 101 DOES NOT REQUIRE SOME DETECTORS TO NOTIFY BUILDING OCCUPANTS, VA REQUIRES ALL SMOKE DETECTORS, OTHER THAN DUCT DETECTORS, TO NOTIFY BUILDING OCCUPANTS. ONLY INSTALL SMOKE DETECTORS WHEN REQUIRED BY THE LIFE SAFETY CODE OR ITS REFERENCES. **- THOSE DOORS THAT ARE REQUIRED TO BE TIED TO THE FIRE ALARM SYSTEM SUCH AS DELAYED EGRESS AND ACCESS CONTROLLED DOORS. (a) - DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS, THEY SHOULD CONTINUE TO RUN.

SEE FIRE ALARM RISER NOTES FOR MORE INFORMATION



COMBINATION FIRE / SMOKE DAMPER NOTES;

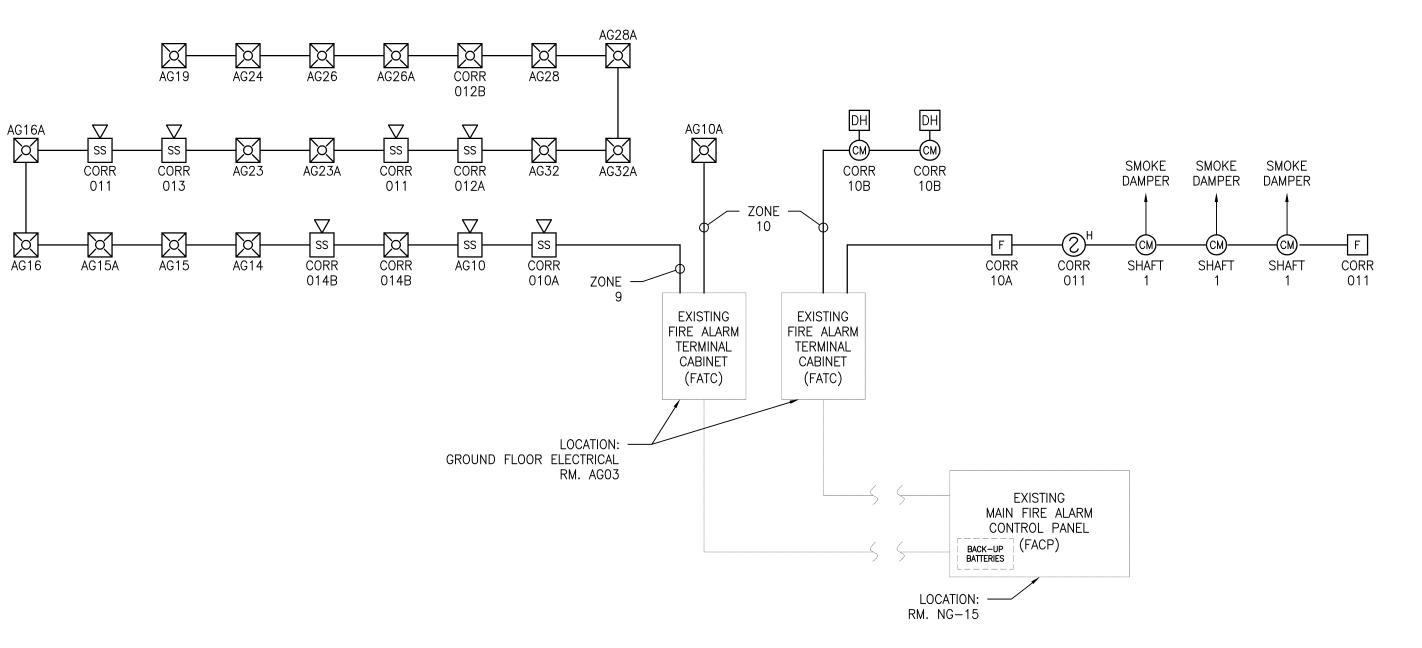
1. REMOTE INDICATING LIGHT WITH KEY SWITCH 2. DUCT DETECTOR 3. FIRE ALARM CONTROL RELAY

4. ELECTRICALLY OPERATED ACTUATOR 5. 120VAC EMERGENCY

COMBINATION FIRE/SMOKE DAMPER WIRING

DIAGRAM

SCALE: NONE
SEE FIRE ALARM RISER NOTES FOR MORE INFORMATION



FIRE ALARM RISER DIAGRAM SEE FIRE ALARM RISER NOTES FOR MORE INFORMATION

GENERAL SHEET NOTES:

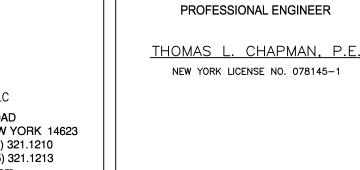
1. SEE DRAWING FA-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

FIRE ALARM RISER NOTES:

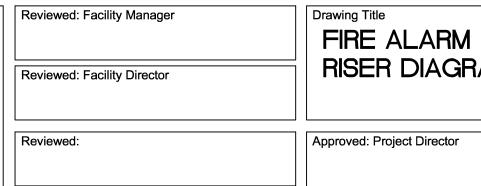
- THIS RISER IS INDICATIVE OF THE SYSTEM CONFIGURATION & SHALL NOT BE USED FOR QUANTIFYING DEVICE NUMBERS.
- 2. THE DWG. IS TO BE COORDINATED WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL, & STRUCTURAL DWGS.
- 3. MANUAL PULL STATIONS SHOWN AT EXIT DOORS SHALL BE WITHIN 5' OF SUCH DOORS (INSTALLED AT 48" AFL). MANUAL PULL STATIONS SHALL BE LOCATED WITH NO MORE THAN 200' BETWEEN STATIONS IN THE PATH OF EGRESS.
- 4. FIRE ALARM WIRING SHALL BE INSTALLED TO MEET THE SURVIVABILITY REQUIREMENTS FOR NOTIFICATION CIRCUITS. IT SHALL MEET UL2196 FIRE TEST STANDARDS & ARE CLASSIFIED AS 24HR. FIRE RATED ELECTRICAL CIRCUIT PROTECTIVE SYSTEM.
- 5. RETURN LOOP SHALL NOT SHARE THE SAME CONDUIT AS THE OUTGOING LOOP.
- 6. RELAYS TO BE PROVIDED AS REQUIRED FOR MECHANICAL SYSTEM SHUTDOWN & CONTROL.
- 7. PROVIDE (1) 1"C TO EACH AUDIOVISUAL AMPLIFIER/SPEAKER SYSTEM LOCATION FOR FIRE ALARM SYSTEM OVERRIDE IN AN ALARM CONDITION.
- 8. NOT USED
- 9. ALLOW A MIN. OF 15% SPARE CAPACITY FOR EACH LOOP UNLESS APPROVED BY
- 10. FOR A SYSTEM MATRIX DEFINING THE INTERFACE OF THE FIRE SAFETY CONTROL FUNCTIONS, REFER TO FIRE ALARM SYSTEMS INPUT-OUTPUT SEQUENCE OF OPERATION MATRIX.
- 11. VERIFY EXISTING NOTIFICATION CIRCUIT/POWER SUPPLY. PROVIDE POWER SUPPLY AS REQUIRED FOR ADDITIONAL CAPACITY.

100% CONTRACT DOCUMENTS **FULLY SPRINKLERED**





MILLER-REMICK CORPORATION

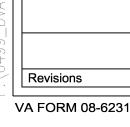


AUDIOLOGY LAB RISER DIAGRAM RENOVATION

Checked **BEAVER** READ

05-19-2014 528A7-13-750 DRAWING NO.





16

Date

Miller-Remick LLC

M.E.P. & Structural Engineering A Service Disabled Veteran Owned

1010 KINGS HIGHWAY SOUTH

PHONE: (856)429-4000 FAX: (856)429-5002

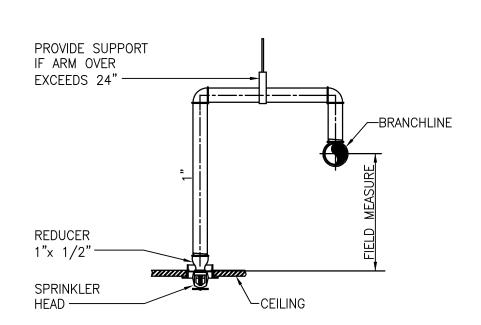
CHERRY HILL, NEW JERSEY 08034

VAMC SYRACUSE, NY

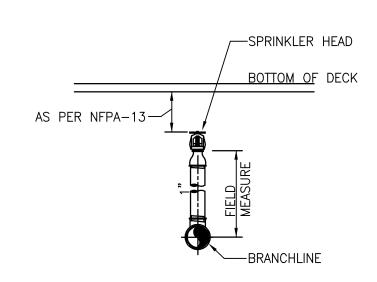
Project Title

NOTE: MAKE ALL CONNECTIONS IN ACCORDANCE WITH MANUFACTURES REQUIREMENTS. — FLEXHEAD SPRINKLER DROP CORRUGATED STAINLESS STEEL HOSE SPRINKLER PIPE -WITH STAINLESS STEEL — ADJUSTABLE HUB MULTI-PORT -UNISTRUT AUDIOLOGY -- SPRINKLER HEAD CHAMBER CEILING ESCUTCHEON -PLATE









TYPICAL UPRIGHT/SPRIG DETAIL

GENERAL NOTES

- 1. FIRE PROTECTION SPRINKLER INSTALLATION SHALL MEET THE REQUIREMENTS OF THE FOLLOWING: A. NFPA 13 AND 14, 2013 ED & 101 ED 2012.
- B. LOCAL AND STATE REGULATIONS AND IBC 2010 ED. C. DVA FIRE PROTECTION MANUAL; SIXTH ED.; REVISED SEPTEMBER 2011.
- 2. SPRINKLER HEADS SHALL BE FM APPROVED QUICK RESPONSE IN ALL AREAS EXCEPT WHERE SPECIFICALLY PROHIBITED, IN COMPLIANCE WITH VA GUIDELINES AND NFPA REQUIREMENTS.
- 3. SPRINKLERS THROUGHOUT THE BUILDING TO BE ORDINARY TEMPERATURE RATED EXCEPT FOR ELECTRICAL ROOMS/CLOSETS, HEADS LOCATED WITH 15' OF AUTOCLAVES SHALL BE INTERMEDIATE TEMPERATURE RATED AND MECHANICAL ROOMS TO BE PROVIDED WITH HIGH TEMPERATURE RATED HEADS.
- 4. SPRINKLER PIPE SIZES AND SPRINKLER HEAD LOCATIONS SHALL CONFORM TO NFPA REQUIREMENTS. SPRINKLER HEADS INDICATED ON DRAWINGS ARE FOR DESIGN COORDINATION AND BUDGETARY PRICING ONLY.
- 5. PIPE HANGERS INCLUDING SEISMIC PROTECTION TO BE INSTALLED AS REQUIRED BY N.F.P.A. FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE.
- 6. PIPING SHALL NOT BE LOCATED IN ANY ELECTRICAL ROOMS/CLOSETS OR TELECOMMUNICATION ROOMS/CLOSETS UNLESS THOSE PIPES SERVE ONLY THAT SPACE.
- 7. ALL SPRINKLER PIPE TO MAINTAIN A 6'-0" MIN VERTICAL CLEARANCE FROM TOP OF ELECTRICAL CONTROL PANELS & SWITCHGEAR/TRANFORMERS.
- 8. PROVIDE SPRINKLER ZONE FLOOR CONTROL VALVE ASSEMBLY CONSISTING OF CONTROL VALVE, CHECK VALVE, FLOW SWITCH,
- SELF-CONTAINED TEST AND DRAIN ASSEMBLY AND PRESSURE GAGE, ON THE SPRINKLER MAIN BRANCH SERVING EACH FLOOR.
- WITH TAMPER SWITCHES. 10. ALL WATER FLOW SWITCHES MUST BE ISOLATED BY MEANS OF A FITTING OR UNION ON BOTH SIDE TO FACILITATE REMOVAL AND

9. INSTALL PIPING SO THAT VALVES ARE ACCESSIBLE AND STEMS EXTEND VERTICALLY UP. ALL CONTROL VALVES SHALL BE EQUIPPED

- SERVICE OF THE FLOW SWITCH.
- 11. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE QUANTITY OF SPRINKLER HEADS AS REQUIRED TO MAINTAIN THE MINIMUM COVERAGE REQUIRED BY NFPA 13 IS ALL AREAS THE BUILDING.
- 12. COORDINATE THE EXACT LOCATION OF ALL SPRINKLER HEADS, PIPING, EQUIPMENT, AND DEVISES WITH ARCHITECTURAL DRAWINGS AND THE RESPECTIVE DRAWINGS OF PIPING, DUCTWORK, DIFFUSERS, BEAMS, LIGHTS, ETC. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THESE COMPONENTS IN THE FIELD AND DOCUMENT ON THEIR SUBMITTALS.
- 13. PROVIDE COMPLETE AND FUNCTIONAL FIRE PROTECTION SYSTEMS FOR THE PROJECT. THE SYSTEMS SHALL CONFORM TO THE SPECIFICATIONS AND AS SHOWN ON DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED, BUT REQUIRED FOR COMPLETE SYSTEMS, SHALL BE PROVIDED AND CONFORM TO ACCEPTED TRADE PRACTICES. THE DRAWINGS AND SPECIFICATIONS ARE PRESENTED TO DEFINE SPECIFIC SYSTEM REQUIREMENTS AND SERVE TO EXPAND ON THE PRIMARY CONTRACT REQUIREMENTS OF PROVIDING COMPLETE SYSTEMS. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND ROUTING OF THE SYSTEMS INCLUDED IN THIS CONTRACTORS WORK.
- 14. THESE DRAWINGS WERE PREPARED FROM INFORMATION TAKEN FROM THE ORIGINAL BUILDING DRAWINGS AND FIELD SURVEY INFORMATION COMPILED BY THE ENGINEERING DESIGN TEAM FOR THE PURPOSE OF ENGINEERING DESIGN CONCEPT. EXISTING CONDITIONS ARE SHOWN AS ACCURATELY AS POSSIBLE. THERE IS THE POSSIBILITY THAT CONDITIONS SHOWN ARE NOT EXACTLY AS EXISTING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LOCATIONS, SIZES AND CONDITIONS AT THE SITE AND DOUMENT THAT ON THEIR SUBMITTALS.
- 15. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE RESTORED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.
- 16. CONTRACTOR SHALL MAKE ALL NECESSARY SUBMISSIONS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO STARTING FABRICATION AND CONSTRUCTION.

FIRE PROTECTION DESIGN CRITERIA

- 1. SYSTEM TYPE; WET PIPE
- 2. SPRINKLER HEAD SPACING AND PIPE SIZING SHALL BE:
- a. TOILET ROOMS, TESTING AND OFFICE AREAS; LIGHT HAZARD (0.10 GPM/SQ.FT. OVER 1500 SQ.FT, 225 SQ.FT. PER SPRINKLER b. STORAGE ROOMS; ORDINARY GROUP II HAZARD (0.20 GPM/SQ.FT. OVER 1500 SQ.FT, 130 SQ.FT. PER SPRINKLER HEAD)
- 3. PROVIDE FOR AN ADDITIONAL WATER ALLOWANCE OF 250 GPM FOR INSIDE AND OUTSIDE HOSE STREAMS TO THE SPRINKLER
- HYDRAULIC REQUIREMENTS. 4. THE CALCULATED DEMAND INCLUDING HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN 10 PERCENT BELOW THE AVAILABLE
- WATER SUPPLY. 5. SYSTEM SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS UTILIZING THE AREA DENSITY METHOD PER THE NFPA 13 BY THE SPRINKLER CONTRACTOR. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER
- 6. SPRINKLER PIPE SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS BASED ON EXISTING FIRE PUMP HYDRAULIC FLOW TEST DATA (SEE VAMC-SYRACUSE FOR CURRENT PUMP TEST DATA):
- DATE: OCTOBER 28, 2013

LICENSED IN THE STATE OF NEW YORK.

- STUCTION PRESSURE 45 PSIG DISCHARGE PRESSURE – 180 PSIG
- RATED FIRE PUMP FLOW 1000 GPM

LEGEND

	EXISTING	ABV CLG	ABOVE THIS CEILING		
/////////////////////////////////////	EXISTING TO BE REMOVED	BLW FLR	BELOW THIS FLOOR		
——— F ———	FIRE PIPING	(E)	EXISTING		
SPR	SPRINKLER PIPING				
DS	DRY SPRINKLER PIPING	EC	ELECTRICAL CONTRACTOR		
D	SPRINKLER DRAIN PIPING	FC	FIRE PROTECTION CONTRACTOR		
—— -	CHECK VALVE	PC	PLUMBING CONTRACTOR		
$-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	CONTROL VALVE	FHV	FIRE HOSE VALVE		
$\overline{\hspace{1cm}}$	INSPECTORS TEST FITTING	FDC	FIRE DEPARTMENT CONNECTION		
Q	PRESSURE GAUGE	SPR	SPRINKLER		
——————————————————————————————————————	GROUND FACE UNION OR FLANGES	SI IV	SI MINNELIN		
FS	WATERFLOW SWITCH				
TS	TAMPER SWITCH				
•	PENDENT SPRINKLER HEAD (NEW)				
•	RECESSED PENDENT SPRINKLER HEAD (NEW)				
0	UPRIGHT SPRINKLER HEAD (NEW)				
\triangleleft	SIDEWALL SPRINKLER HEAD (NEW)				
	SPRINKLER ZONE/SMOKE WALL				

100% CONTRACT DOCUMENTS

FULLY SPRINKLERED





Miller-Remick LLC M.E.P. & Structural Engineering 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000

Date



VAMC SYRACUSE, NY

528A7-13-750 DRAWING NO.

VA FORM 08-6231

16

GENERAL SHEET NOTES: 1. REFER TO DRAWING FX-001 FOR FIRE PROTECTION LEGEND, GENERAL NOTES AND PLAN NORTH 2. PROVIDE FLEXHEAD TYPE SPRINKLER ASSEMBLY FOR AUDIOLOGY CHAMBERS, REFER TO DETAIL 3/FX-001. 3. EXISTING SPRINKLERS IN AREAS OUTSIDE WORK AREA TO REMAIN UNLESS INDICATED OTHERWISE. MODIFY EXISTING SPRINKLER SYSTEM — PIPING AS REQUIRED TO SUIT NEW MODIFY EXISTING SPRINKLER ZONE 9 — VALVE ASSEMBLY AND FIRE DEPT LAYOUT AND COORDINATION WITH ABOVE VALVE TO PROVIDE FOR NEW ACCESS TO EXISTING SIAMESE FIRE DEPT CONNECTION EXISTING 6" UP TO TO STANDPIPE 2 ZONE 9 2 BASEMENT FLOOR PLAN SCALE: 1/32" = 1'-0" FINISH FLOOR EL: 118.08' PARTIAL GROUND FLOOR PLAN SCALE: 1/8" = 1'-0" FINISH FLOOR EL: 130.0' KEY PLAN - GROUND FLOOR SCALE: NONE **100% CONTRACT DOCUMENTS FULLY SPRINKLERED** Drawing Title Project Title Reviewed: Facility Manager MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER FIRE PROTECTION 05-19-2014 **AUDIOLOGY LAB** GARDNER PLUS GROUND FLOOR PLAN Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned **RENOVATION** Reviewed: Facility Director 528A7-13-750

40 WILDBRIAR ROAD ROCHESTER, NEW YORK 14623 TELEPHONE: (585) 321.1210 FACSIMILE: (585) 321.1213

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Approved: Project Director

DRAWING NO.

FX-101

PD

NO. 1

VAMC SYRACUSE, NY

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Date

VA FORM 08-6231